JVC

ENGLISH
SVENSKA
NORSK
DANSK
SUOMI

AV-28KT1BUF
AV-28KT1SUF

COLOUR TELEVISION — INSTRUCTIONS

FÄRG- TV — BRUKSANVISNING
FARGEFJERNSYN — BRUKSANVISNING
FARVEFJERNSYN — INSTRUKTIONSBOG
VÄRITELEVISIO — KÄYTTÖOHJE

50085959
0506TKH-VT-VT

4-3) (10041582)\B-COVER PAGE-BG-AK49-C1100UK-2835-CLED-PLLCH-(AV-28KT1SUF)-10041582-50085959.cdr

Contents

Safety Precautions 1

Remote Control 2

TV Buttons and Functions and Rear Panel 3

Antenna Connections 3

Preparation 4

Features 4

Before Switching on your TV 4

Power connection 4
Connections to the RF input socket 4
How to connect other devices 4
Inserting batteries into the remote control 4

Switching the TV ON/OFF 4

To switch the TV on 4
To switch the TV off 4

Initial Settings 4

T-V LINK 5

Basic Operations 5

Setting the TV 6

Picture Menu 6
Sound Menu 7
Feature Menu 8
Installation Menu 8
Programme Menu 9

Other Features 10

Picture Mode 10
Zoom Modes 10
VCR Control Buttons 10

Teletext 11

Peripheral Equipment Connections 12

Tips 14

Specifications 14

Safety Precautions

1. Power Source

The receiver should be operated only from a **220-240V AC, 50 Hz.** outlet. Ensure you select the correct voltage setting for your convenience.

2. Power Cord

The power supply cord should be placed so that they are not likely to be walked on or pinched by items placed upon them or against them. Pay particular attention to cord where they enter the plug, power outlet, and the point where they exit from the receiver.

3. Moisture and Water

Do not use this equipment in a humid and damp place (avoid the bathroom, the sink in the kitchen, and near the washing machine). Do not expose this equipment to rain or water and do not place objects filled with liquids on it as this may be dangerous.

4. Cleaning

Before cleaning, unplug the receiver from the main supply outlet. Do not use liquid or aerosol cleaners. Use with soft and dry cloth.

5. Ventilation

The slots and openings on the receiver are intended for ventilation and to ensure reliable operation. To prevent overheating, these openings must not be blocked or covered in anyway.

6. Lightning

In case of storm and lightning or when going on holiday, disconnect the power cord from the wall outlet.

7. Replacement Part

When replacement parts are required, be sure the service technician has used replacement parts which are specified by the manufacturer or have the same specifications as the original one. Unauthorized substitutions may result in fire, electrical shock, or other hazards.

8. Servicing

Please refer all servicing to qualified personnel. Do not remove cover as this may result in electric shock.

9. Flame sources

Do not place naked flame sources on the apparatus.

10. Stand-By

Do not leave your TV stand-by or operating condition when you leave your house.

Warning!

Any intervention contrary to regulations, in particular, any modification of high voltage or a replacement of the picture tube may lead to an increased concentration of x-rays. Any television modified in this way no longer complies with license and must not be operated.

Instructions for waste disposal:

Packaging and packaging aids are recyclable and should principally be recycled. Packaging materials, such as foil bag, must be kept away from children.

Batteries, including those which are heavy metal-free, should not be disposed of with household waste. Please dispose of used batteries in an environmentally sound manner. Find out about the legal regulations which apply in your area.

Remote Control

① ⏻/❙ = Stand By / Power

② **0 - 9** = Direct Program

③ **STANDARD** Button (Picture Mode Change)

④ Colour Buttons

RED: Zoom (Picture Size) Change

GREEN: Hyper Sound

⑤ **MENU** = Menu Button

⑥ ▲ (**P**∧) = Cursor Up / Programme Up

⑦ ▶ (◁+) = Cursor Right / Volume +

⑧ Teletext Control Buttons

⑨ VCR Control Buttons

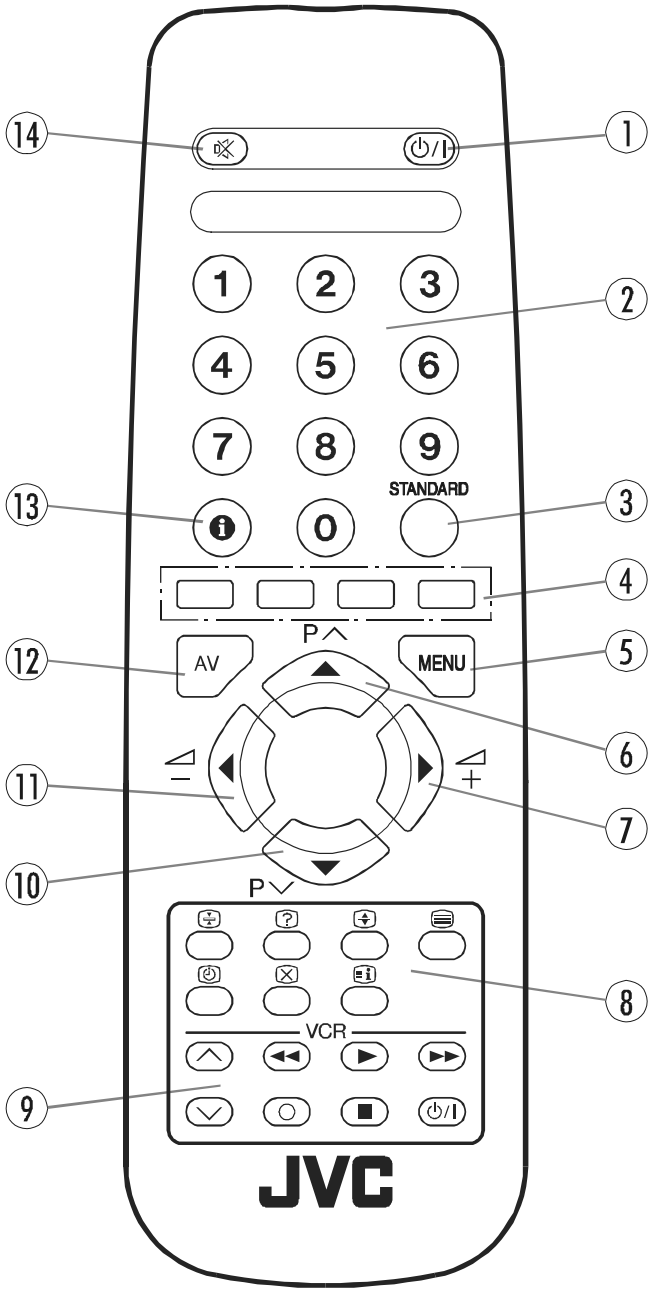
⑩ ▼ (**P**∨) = Cursor Down / Programme Down

⑪ ◀ (◁−) = Cursor Left / Volume -

⑫ **AV** = AV Button

⑬ ℹ = Information Button / T-V Link in Program Menu

⑭ 🔇 = Mute



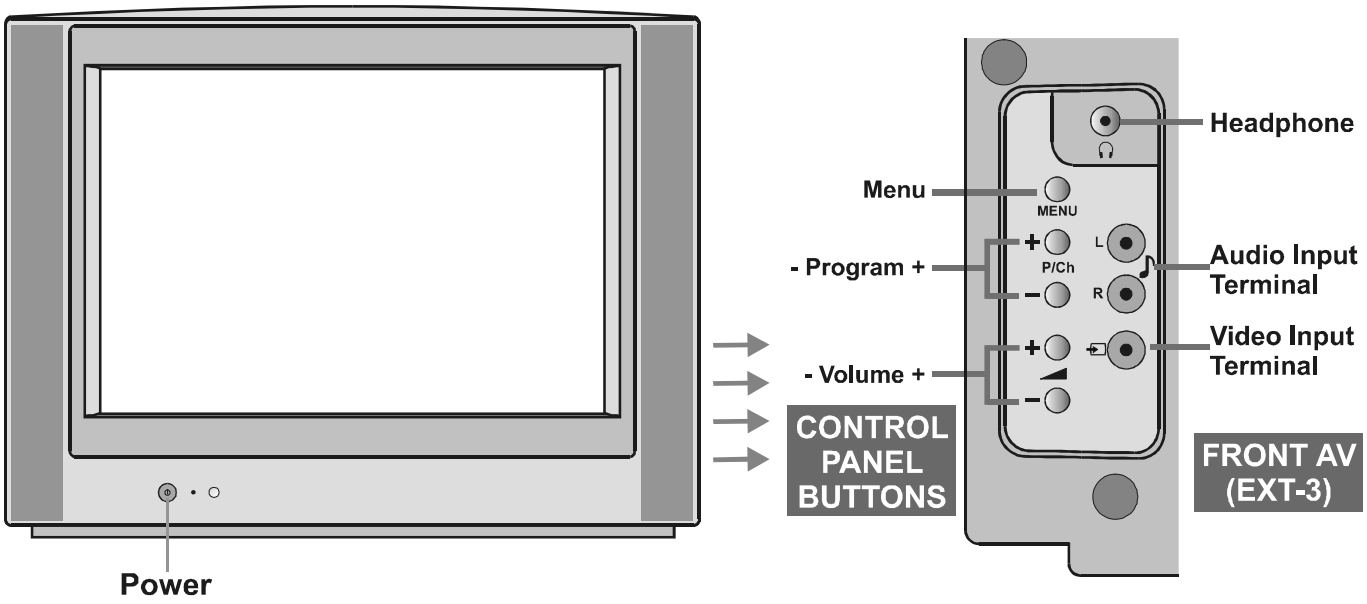
CAUTION

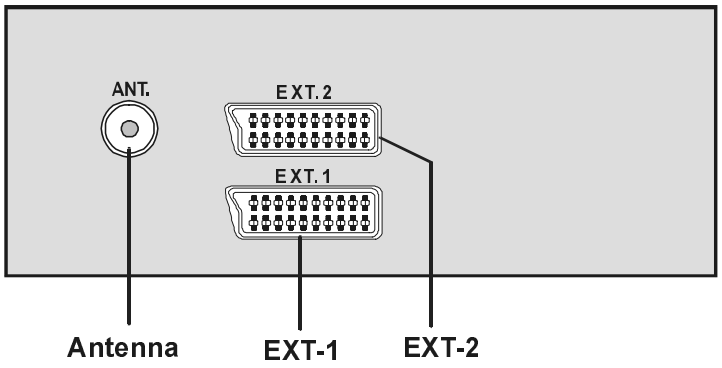
RISK OF ELECTRIC SHOCK

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock of persons.

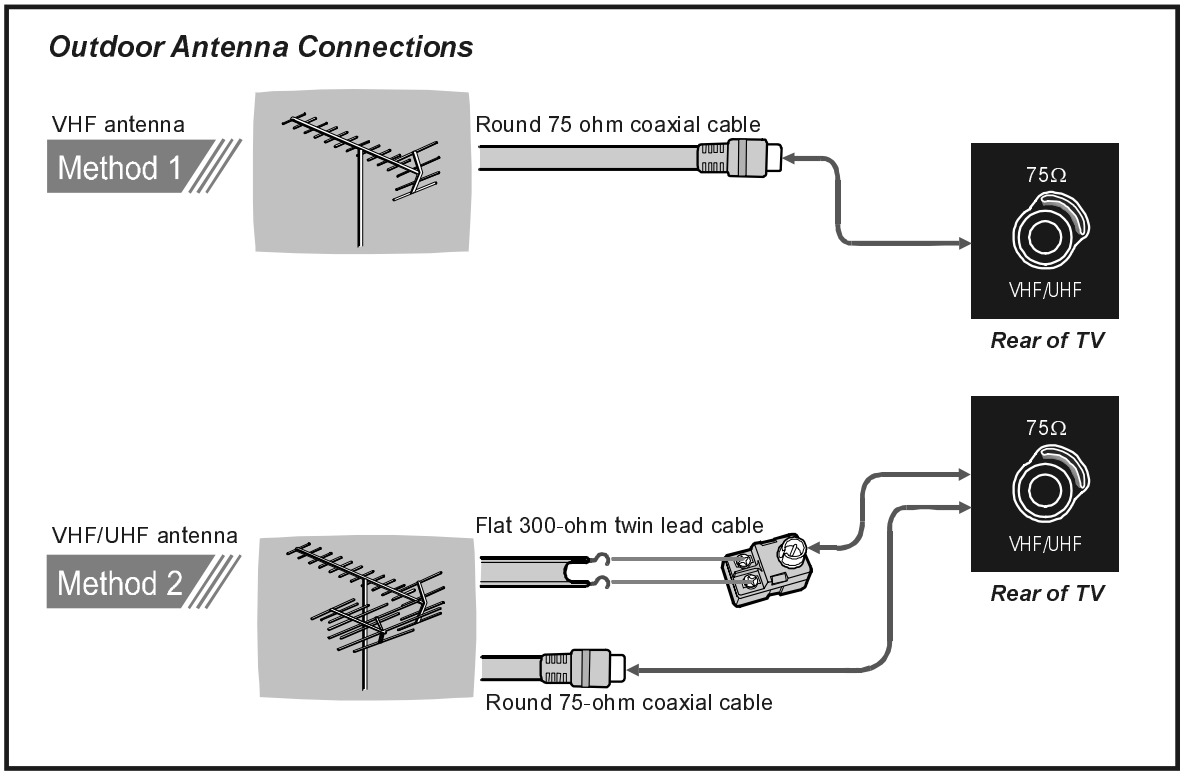
The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

TV Buttons and Functions and Rear Panel





Antenna Connections



Preparation

For ventilation, leave a space of at least 10 cm free all around the set. To prevent any fault and unsafe situations, please do not place any objects on top of the set.

Use this apparatus in moderate climate.

Features

- It is a remote controlled colour television.
- 100 programmes from VHF, UHF bands or cable channels can be preset.
- It can tune cable channels.
- Controlling the TV is very easy by its menu driven system.
- It has two Euroconnector sockets for external devices (such as computer, video, video games, audio set, etc.)
- A2+NICAM Stereo sound system.
- Teletext (Fastext, Toptext).
- It is possible to connect headphone.
- Direct channel access.
- A.P.S. (Automatic Programming System).
- All programmes can be named.
- Programme swapping between last watched two programmes.
- Forward or backward automatic tuning.
- Sleep timer.
- Child Lock.
- Automatic sound mute when no transmission.
- When no valid signal is detected, after 5 minutes the TV switches itself automatically to stand-by mode.
- NTSC Playback.
- S-VHS (via SCART)

Before Switching on your TV

Power connection

IMPORTANT: The TV set is designed to operate on **220-240V AC, 50 Hz.**

- After unpacking, allow the TV set to reach the ambient room temperature before you connect the set to the mains.

Connections to the RF input socket

- Connect the aerial or cable TV plug to the RF input socket located at the back of the TV and connect the cable plug coming out from the TV out socket located at the devices (VCR, DVB etc.) to this socket as well.

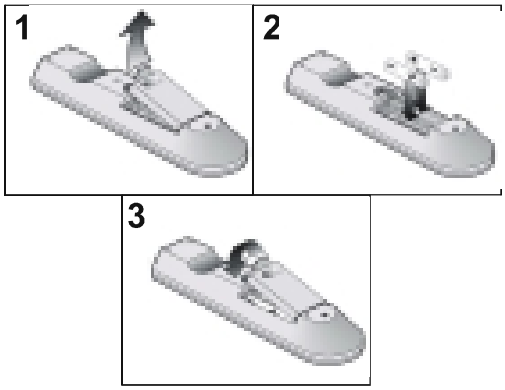
How to connect other devices

IMPORTANT: Switch off the TV before connecting any external device.

Sockets for external connections are at the back and on the TV. For connection of other devices via Euroconnector refer to the manuals of the related devices.

Inserting batteries into the remote control

- Remove the battery cover located on the back of the remote control by gently pulling downwards from the indicated part.
- Insert two **AA (R06)** or equivalent type batteries inside. Place the batteries in the right directions as seen below.
- Replace the battery cover.



NOTE: *Remove batteries from remote control when it is not to be used for a long period. Otherwise it can be damaged due to any leakage of batteries.*

Switching the TV ON/OFF

To switch the TV on

Your TV will switch on in two steps:

1- Press the power button located on the front of the TV. Then the TV switches itself to standby mode and the power lamp becomes RED located on the lower part of the TV.

2- To switch on the TV from stand-by mode either:

Press the "⏻ / I" button on the remote control,

or,

Press a digit button on the remote control so that a programme number is selected,

or,

Press Programme Up or Down buttons on the TV or on the remote control, so that last switched off programme is selected.

The TV will switch on and the power lamp will be GREEN.

To switch the TV off

- Press the stand-by button on the remote control, so the TV will switch to stand-by mode and the power lamp will become RED,

or,

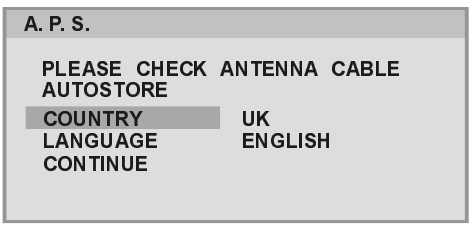
- Press the power button located on the front of the TV, so the TV will switch off and the power lamp will turn off.

Initial Settings

When the TV is first turned on, it goes into the initial settings mode. Follow the instructions on the screen display to make the initial settings.

Note: *If the TV does not go into the initial settings mode this is because your TV has already been turned on for the first time. (Perform "AUTO STORE" (see page 9) in the PROGRAMME menu.)*

Because this is the first time that TV has been used, there are no channels stored in the memory. Analogue terrestrial broadcasting AUTOMATIC PROGRAMMING SYSTEM (A.P.S.) window is displayed.



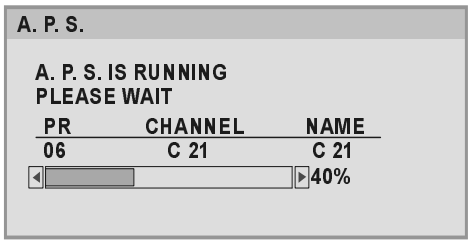
• If you do not want to start **A.P.S.**, you can cancel it by pressing the **MENU** button on your remote control.

• First select your country by pressing "◀" or "▶" button. This will affect the sort process in APS.

• By pressing the "▲" or "▼" buttons, come to the Language item and select the language in which the menus of the TV will appear. You can see the available languages by pressing "◀" or "▶" button. As soon as you change the language, the menu items will be displayed in the selected language.

• To select "**Continue**" use "▲" or "▼" button. By pressing "◀" or "▶" button start the **A.P.S.**

• When you start **A.P.S.** the following window will appear on the screen.



After APS is finalized, a programme list will appear on the screen. In the programme list you will see the programme numbers and names assigned to the programmes.

If you do not accept the locations and / or the programme names of programmes, you can change them in Program menu. For details see PROGRAMME menu on **page 9**.

If you do not have a T-V LINK compatible VCR, press BLUE button to exit the menu.

If you have a T-V LINK compatible VCR connected to the EXT.2 terminal, press "ⓘ" button to display T-V LINK menu. Then follow the operating procedure "Downloading data to VCR" in the following T-V LINK section.

T-V LINK

When a T-V LINK compatible VCR is connected to the EXT.2 terminal on the TV, it is easier to set up the VCR and to view videos. T-V LINK uses the following features:

To use T-V LINK functions

A "T-V LINK compatible VCR" means a JVC video cassette recorder with the T-V LINK logo, or with one of the following logos. For details see your VCR instruction manual.

"**Q-LINK**" (A trademark of Panasonic Corporation)

"**Data Logic**" (A trademark of Metz Corporation)

"**Easy Link**" (A trademark of Philips Corporation)

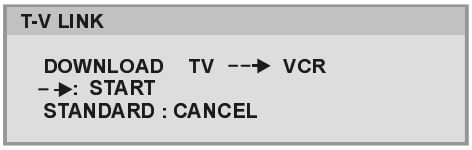
"**Megalogic**" (A trademark of Grundig Corporation)

"**SMARTLINK**" (A trademark of Sony Corporation)

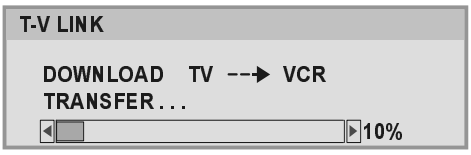
Downloading data to VCR:

The VCR will automatically download the registered data on the TV channels from the TV. This means you do not need to set up the programme channels on your VCR manually.

The "T-V LINK" menu will be displayed when you press the "ⓘ" button while PROGRAM menu is displayed.



Press "▶" button to start downloading data to VCR. "TRANSFER" is displayed in the menu. Transfer bar can only be seen after APS.



If you do not want to continue press the **STANDARD** button to exit the menu.

If "FEATURE NOT AVAILABLE" is displayed, download was not performed correctly. Before trying to download again, check that:

• The VCR power is turned on.

• The VCR is T-V LINK compatible.

• The VCR is connected to the EXT.2.

• The scart cable is fully wired.

Direct REC:

You can easily record to VCR the images that you are watching on the TV. For details, read the manual for your VCR. Use your VCR controls. "VCR IS RECORDING" is diplayed. You can not carry out Direct REC using your TV's control.

When the VCR is not ready (For example when there is no tape inserted), "NO RECORDING" is displayed.

When you press the following buttons (⏻ / I, ⓘ, AV, MENU, ☰, BACK, SUBTITLE, GUIDE, ZOOM, ⇔, **P**∨ / **P**∧, number buttons) during recording, a message appears asking if you want to stop recording or not. Press "◀" or "▶" button to stop recording or **BLUE** button to continue recording.

Do not turn the TV off in the following cases:

• When recording images from an external device connected to TV (For example camcorder).

• When recording a TV channel after it has been unscrambled on a decoder.

• When recording a TV channel by using the TV's output because the VCR's own tuner can not properly receive that channel.

TV autopower on/VCR image view:

When the VCR starts playing, the TV automatically turns on and images from EXT2 appear on the screen.

This function does not happen if your TV's main power is turned off. Set your TV's main power to on (StandBy Mode).

Basic Operations

You can operate your TV using both the remote control and onset buttons.

Operation with the buttons on the TV

Volume Setting

• Press "◢ **-**" button to decrease volume or "◢ **+**" button to increase volume, so a volume level scale (slider) will be displayed at the middle of the bottom on the screen.

Programme Selection

• Press "**P/CH +**" button to select the next programme or "**P/CH -**" button to select the previous programme.

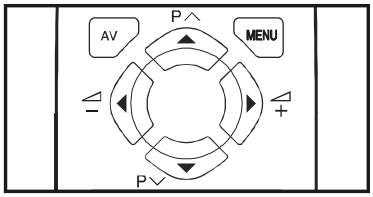
Entering Main Menu

• Press "**MENU**" button to enter Main menu. In the Main menu select sub-menu using "**P/CH -**" or "**P/CH +**" button and enter the sub-menu using "◢ **-**" or "◢ **+**" button. To learn the usage of the menus, refer to the Menu System sections.

Operation with Remote Control

The remote control of your TV is designed to control all the functions of the model you selected. The functions will be described in accordance with the menu system of your TV.

Functions of the menu system are described in following sections.



Volume Setting

Press "◢ **+**" button to increase volume. Press "◢ **-**" button to decrease volume. A volume level scale (slider) will be displayed in the middle at the bottom of the screen.

Programme Selection (Previous or next programme)

• Press "P∨" button to select the previous programme.

• Press "P∧" button to select the next programme.

Programme Selection (direct access):

Press digit buttons on the remote control to select programmes between 0 and 9. TV will switch to the selected programme. To select programmes between 10 - 99, press the digit buttons consecutively which programme you want to select (eg. for programme 27, first press 2 and then 7). When it is late to press second digit button only the first digit programme will be displayed. The limit of the delay time is 3 seconds.

Example: PR6 → press 6, PR12 → press 1 and 2.

Press directly the programme number to reselect single digit programmes.

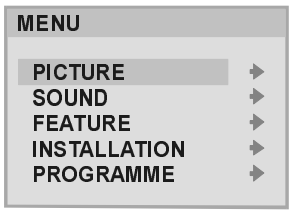
Setting the TV

Menu System

Your TV has been designed with a menu system, to provide an easy manipulation of a multi-function system. The TV is controlled by choosing the commands, which are displayed on the screen.

MAIN MENU

Press the "**MENU**" button. The **MENU** will be displayed in the middle on the screen.

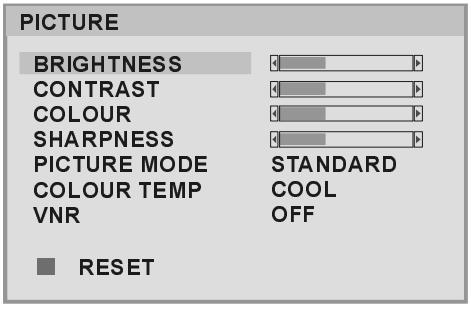


To select a sub-menu use "▲" or "▼" button, and press "◀" or "▶" button.

Use the "**MENU**" button to go back to the previous programme when the menu does not appear on the screen.

Picture Menu

Press "**MENU**" button, now you are in main menu. In the Main menu, select "**Picture**" using "▲" or "▼" button, then enter the Picture menu by pressing "◀" or "▶" button.



Setting Brightness

• As you enter the picture menu, Brightness will be the first selected option.

• Press "▶" button to brighten the picture.

• Press "◀" button to darken the picture.

Setting Contrast

Contrast is the difference and distribution of light and dark tones in an image.

• Using "▲" or "▼" button select Contrast.

• Press "▶" button to increase contrast level.

• Press "◀" button to decrease contrast level.

Setting Colour

• Using "▲" or "▼" button select Colour.

• Press "▶" button to increase colour saturation.

• Press "◀" button to decrease colour saturation.

Setting Sharpness

• Using "▲" or "▼" button select Sharpness.

• Press "▶" button to sharpen the picture.

• Press "◀" button to soften the picture.

Setting Hue (In AV mode only)

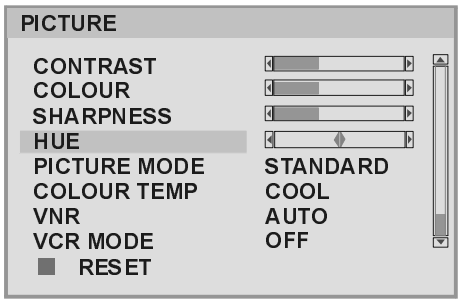
(During Playback NTSC system, this will appear in AV mode only when NTSC video source is applied. Otherwise, HUE option is invisible in Picture menu.):

• Using "▲" or "▼" button select Hue.

• Press "▶" button to increase the green tones.

• Press "◀" button to increase the red tones.

Center value is indicated with two reciprocal arrows.



Setting Picture Mode

This item is used to change the picture mode. By pressing "◀" or "▶" button you may select one of these options: **STANDARD, SOFT** and **BRIGHT**.

You can also set the Picture Mode by pressing the Blue button directly.

Setting Colour Temp

This item is used for white colour tint adjustment. By pressing "◀" or "▶" button you may select one of these options: **COOL**, **NORMAL, WARM**.

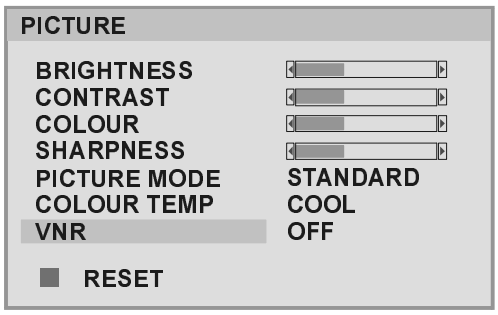
Setting VNR (Video Noise Reduction)

This item is used to reduce the image noise and improve the picture quality at weak signals.

• Using "▲" or "▼" button select VNR.

• Press "◀" or "▶" button to set VNR level to **OFF**, **MIN**, **AUTO** or **MAX.**

AUTO adjusts the VNR level to **OFF**, **MIN** or **MAX** automatically according to the intensity of the noise.



Setting VCR Mode (In AV mode only)

• Using "▲" or "▼" button select VCR Mode.

• When you watch a picture from your VCR and the picture is unstable, you may improve it by changing the "**VCR MODE**" setting from "**OFF**" to "**ON**".

Reset

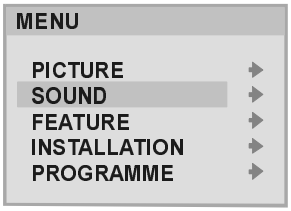
Press BLUE button to reset the picture modes to factory default settings.

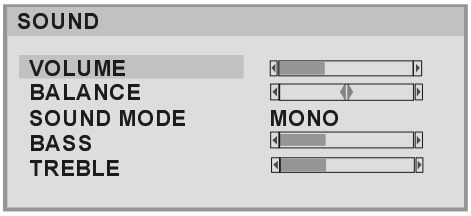
To Store the Settings

In the Picture Menu, all settings are stored automatically.

Sound Menu

• Press "**MENU**" button, now you are in **MENU.** In the **MENU**, select **SOUND** using "▲" or "▼" button, then enter the sound menu by pressing "◀" or "▶" button.





Setting Volume

As you enter the sound menu, Volume will be the first selected option.

• Press "▶" button to increase volume.

• Press "◀" button to decrease volume.

Or you can directly change the volume settings using "◢ **+**" (to increase) or "**-** ◢" (to decrease) button.

Setting Balance

It allows adjusting the distribution between the left and right speakers.

• Using "▲" or "▼" button select Balance.

• Press "▶" button to change balance to the right.

• Press "◀" button to change balance to the left.

When balance control is in mid position, the cursor is displayed with two reciprocal arrows.

Selecting Sound Mode

• Using "▲" or "▼" button select Sound Mode.

• Press "◀" or "▶" button to change Mode.

You can select **MONO**, **STEREO, DUAL-I** or **DUAL-II** mode, only if the selected channel supports that mode.

In case of bilingual broadcast (Dual Sound), you can select original or dubbed language using mode option.

Setting Bass Level

• Using "▲" or "▼" button select Bass Level.

• Press "▶" button to increase bass level.

• Press "◀" button to decrease bass level.

Setting Treble Level

• Using "▲" or "▼" button select Treble

• Press "▶" button to increase treble level.

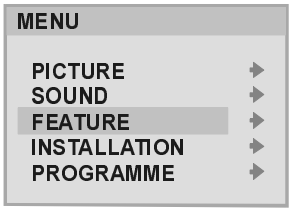
• Press "◀" button to decrease treble level

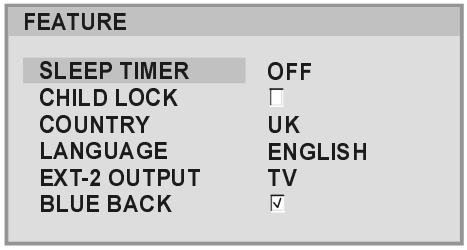
To Store the Settings

In the Sound Menu, all settings are stored automatically.

Feature Menu

• Press "**MENU**" button, now you are in **MENU**. In the **MENU**, select **Feature** using "▲" or "▼" button. Then enter the **Feature** menu by pressing "◀" or "▶" button.





Sleep Timer

As you enter the **Feature** menu, **Sleep Timer** will be the first selected option. Use "◀" or "▶" button to change the Sleep Timer values between **OFF, 10, 20, 30, ..., 110** and **120**.

If sleep timer is activated, at the end of the selected time, the TV goes automatically to stand-by mode.

You can also set the Sleep Timer by pressing the Yellow button directly.

Child Lock

You can use this feature to prevent children turning the TV on or changing programs or adjustments etc. without remote control.

The **Child Lock** feature can be set by "◀" or "▶" button to either **ON** or **OFF**. When **OFF** is selected, there will be no difference in the operation of your TV. When **ON** is selected, the TV can only be controlled by the remote control handset. In this case, the front panel buttons (except the Power On/Off button) will not work.

If Child Lock is ON, when one of the front panel buttons (except power button) is pressed, "**CHILD LOCK**" OSD is seen on the screen.

Selecting Country

• Using "▲" or "▼" button select Country.

• Press "◀" or "▶" button to select the desired country settings.

Selecting Language

Menu language can be selected by pressing "◀" or "▶" button on **Language** item.

Ext-2 Output

• Using "▲" or "▼" button select Ext-2 Output.

• Press "◀" or "▶" button to select the source which will be given. From Ext-2 output, either **EXT-1, EXT-3** or **TV** can be selected.

Blue Back

You can set the TV to automatically change to a blue screen if the signal is weak or absent, or when there is no input from an external device.

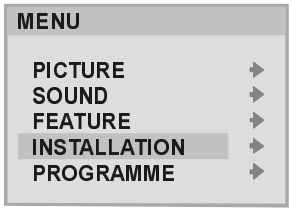
The **Blue Background** feature can be turned on or off by pressing "◀" or "▶" button.

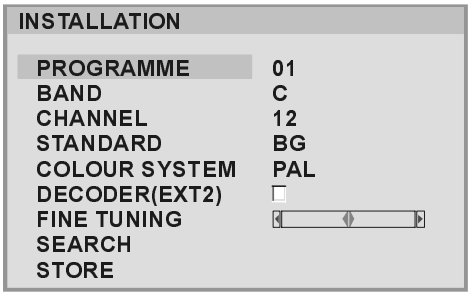
To Store Settings

In **Feature** menu all settings are stored automatically.

Installation Menu

• Press "**MENU**" button, now you are in **MENU**. In the **MENU**, select **INSTALLATION** using "▲" or "▼" button. Then enter the Installation menu by pressing "◀" or "▶" button.





Selecting Programme

To select programme number, you can use "◀" or "▶" button or Digit Buttons.

Selecting Band

BAND, can be selected either "C" or "S" by pressing "◀" or "▶" button.

Selecting Channel

CHANNEL can be changed by "◀" or "▶" button or Digit Buttons.

For band C,

01 - 83, WEST EUROPE.

01 - 12, 21 - 69, EAST EUROPE .

01 - 17, 21 - 73, UK.

01 - 76, FRANCE.

04 - 09, FRANCE 2.

For band S,

01 - 41, for all channel tables.

Selecting Standard

STANDARD can be selected **BG, I, L** or **DK** by pressing "◀" or "▶" button.

Selecting Colour System

Using "◀" or "▶" button on **Colour System**, you can change the colour system to **PAL, SECAM** or **AUTO**.

Note: In EXT mode, you can choose NTSC 3.58 and NTSC 4.43 as well.

Selecting Decoder (EXT2)

You can use this mode to connect any decoder to your TV.

• Press the "◀" or "▶" buttons to turn it on or off.

When you turn Decoder on, EXT-2 output will be chosen as TV mode only and any scrambled channels will be unscrambled through decoder connected your TV via EXT-2 output.

Decoder setting should be stored separately for each programme.

Selecting Fine Tuning

You can use the Fine Tuning process for fine adjustment (after coarse adjustment), if you are not happy with the image on the screen.

Use "◀" or "▶" button on **FINE TUNING** item, until getting the best image on the screen.

In Channel option, normally the Fine Tuning cursor is placed at the middle on the slider, and this is indicated with two reciprocal arrows.

Selecting Search

• Using "▲" or "▼" button select Search item.

• Press "◀" or "▶" button in order to start channel search. "**SEARCHING...**" is displayed during the search process. Searching is stopped as soon as a station is found or "▲", "▼", "◀", "▶" buttons are pressed.

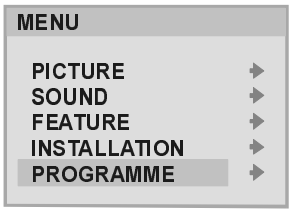
To Store Settings

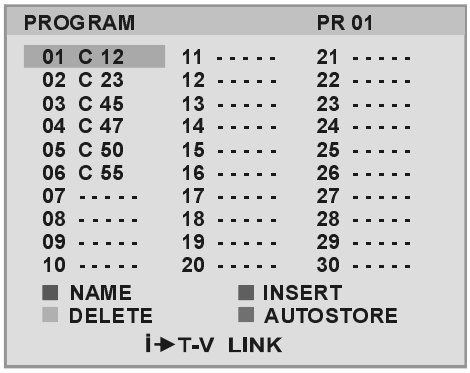
• Using "▲" or "▼" button select Store.

• Press "◀" or "▶" button to store Installation menu settings.

Programme Menu

• Press "**MENU**" button, now you are in **MENU**. In the **MENU**, select **PROGRAMME** using "▲" or "▼" button. Then enter the Program menu by pressing "◀" or "▶" button.





Moving cursor to four directions you can reach 30 programmes in the same page. You can scroll the pages up or down by pressing the navigation buttons.

By cursor action, programme selection is done automatically. Selected programme is displayed with "**HIGHLIGHTED**" characters.

Programme Number is between 00 and 99. Programme Name has a name string with 5 characters. After autostore process the Programme Names are set to:

• Channel search "**C01**" or "**S01**" (band and channel number), as default.

At the bottom of the menu there is a programme sort functions section. Each function is activated by a colour button. **NAME,** changes the programme name. **DELETE,** deletes undesired programmes. **INSERT,** inserts a programme into another programme's position. By selecting **AUTOSTORE**, Autostore menu will be available.

NAME:

You can change the name of a selected programme by pressing the **RED** button (**NAME**). First letter of the selected programme is displayed with a highlighted character. To change that letter "▲" or "▼" button can be used, and to select the other letters, "◀" or "▶" button can be used.

After changing the name, press the **RED** button to store the new name or press the **BLUE** button to cancel.

INSERT:

When the **GREEN** button (**INSERT**) is pressed, "**NAME**", "**AUTOSTORE**" and "**DELETE**" functions are erased and the selected programme is displayed with green characters. Use the navigation buttons to select another programme's position. When the **GREEN** button is pressed again, the first selected programme will be inserted into the position of the current selection.

Press the **BLUE** button to cancel the activated "**INSERT**" process.

DELETE:

Press the **YELLOW** button to select a programme that you want to delete. When the **YELLOW** button is pressed again the selected programme will be deleted.

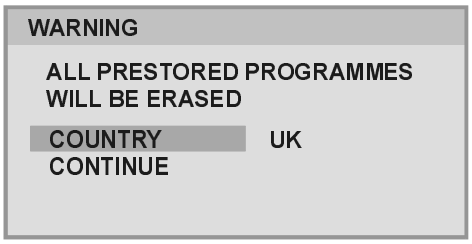
Pressing the **BLUE** button cancels the activated "**DELETE**" process.

AUTOSTORE:

(A.P.S. (Automatic Programming System))

A.P.S. searches and sorts all channels and stores them automatically on your TV, according to the transmission of programme systems in your area.

To enter Autostore menu, press the **BLUE** button.

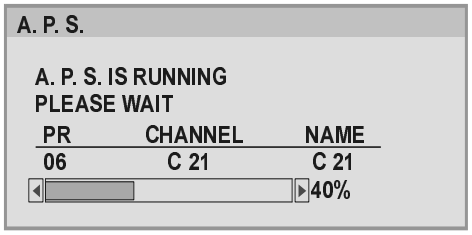


• If you do not want to start **A.P.S.**, you can cancel it by pressing the Menu button on your remote control.

• First select your country by pressing "◀" or "▶" button. This will affect the sort process in APS.

• To select "**Continue**" use "▲" or "▼" button. By pressing "◀" or "▶" button start the **A.P.S.**

• When you start **A.P.S.** the following window will appear on the screen.



After APS is finalized, a programme list will appear on the screen. In the programme list you will see the programme numbers and names assigned to the programmes.

If you do not accept the locations and / or the programme names of programmes, you can change them in Programme menu.

Other Features

TV Status

Programme Number, **Programme Name** (or **EXT**), (they are displayed on the upper left of the screen). The **sound indicator** is displayed with them too. They are displayed after programme change for 3 seconds.

Sound Indicator

The alternatives of the indicator are Mono, Stereo, Dual I and Dual II. This indicator is displayed under the programme number indicator on the screen.

In Mono broadcast or in forced-mono (for stereo broadcast).

In Stereo broadcast.

If dual broadcast detected. Dual I is selected in default and also can be selected after Dual II by Remote Control.

If Dual II is selected by Remote Control.

Mute Indicator

It is placed in the upper middle of the screen when enabled, and it stays there until it is disabled.

To cancel mute, there are two alternatives; the first one is by pressing the "🔇" button, this volume is set to the preceding value, and the second one is increasing or decreasing the volume level.

No-Signal Detection (TV mode)

If no valid signal is detected, it takes 5 minutes to switch to the Stand-By mode unless any signal detected or any Remote Control command is accessed.

After a Remote Control command (if No-Signal Timer is active) the timer stops and if no signal detected again the timer is initialized to 5 minutes and starts 3 seconds later again to count down.

It is not valid in EXT modes.

Volume Bar

It is displayed in the lower middle of the screen. When a volume command is received (pressing **"◢ +"** or **"◢ -"** by Remote Control or Control panel at the right side of the TV) and no menu is active, it stays on the screen for 3 seconds, after the last volume command or until another command is received in between.

EXT Modes

By pressing the "**AV**" button you can switch your TV to EXT modes (except being in Teletext). Pressing this button consecutively will switch the TV in one of the optional EXT modes: **EXT1, EXT2, EXT2 S** and **EXT3**

In order to quit the EXT mode press any digit buttons or "**P**∨" / "**P**∧".

Picture Mode

You can change **Picture Mode** settings by pressing "**STANDARD**" button when no menu appears.

Zoom Modes

Zoom mode can be changed by pressing Red button. You can change the screen size according to the picture aspect ratio. Select the optimum one from the following **ZOOM** modes: **Auto**, **4:3** and **16:9**.

VCR Control Buttons

The buttons can be used to operate a JVC brand VCR. Pressing the button having the same appearance as the original remote control button of a device makes the function work in the same way as the original remote control.

Press the VCR Control Button to control your VCR.

Note:

• If your device is not made by JVC, these buttons cannot be used.

• Even if your device is made by JVC, some of these buttons or any one of the buttons may not work, depending on the device.

• You can use the ∧ / ∨ buttons to choose a TV channel which the VCR will receive.

Teletext

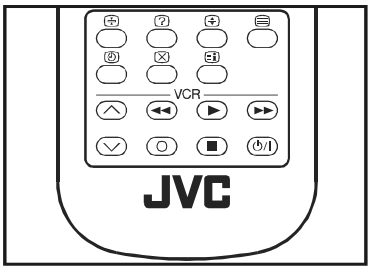
Teletext is an information system that displays text on your TV screen. Using the Teletext information system you can view a page of information on a subject that is available in the list of contents (index).

On screen display is not available in text mode.

Contrast, brightness or colour control is not available, but volume control is available in text mode.

To operate Teletext

- Select a TV station on which Teletext is being transmitted.
- Press (TELETEXT) "▤" button. Usually the list of contents (index) is displayed on the screen.



To select a page of Teletext

- Press the appropriate digit buttons for the required Teletext page number.

The selected page number is displayed at the top left corner of the screen. The Teletext page counter searches until the selected page number is located, so that the desired page is displayed on the screen.

- Press "**P**∧" button to move the Teletext screen forward one page at a time.
- Press "**P**∨" button to move the Teletext screen backward one page at a time.

To Select Index Page

- To select the page number of the index (generally page 100), press "▤i" button.

Searching for a teletext page while watching TV

- In the Teletext mode pressing "⊠" button will switch the screen to the TV mode. In the TV mode enter a page number using digit buttons. As you enter last digit of page number, "▤" sign will replace the page number and flash until the entered page number is found. Then the page number will replace "▤" sign again. Now you can display this teletext page by pressing "⊠" button.

To Select Double Height Text

- Press "⊕" button for the top half of the information page to be displayed in double height text.
- Press "⊕" button again for the bottom half of the information page to be displayed in double height text.
- Press "⊕" button once more for the full page of normal height text.

To Reveal "concealed" Information

- Pressing "?" button once will reveal answers on a quiz or games page.
- Pressing "?" button again will conceal the revealed answers.

To Stop Automatic Page Change

The teletext page you have selected may contain more information than what is on the screen; the rest of the information will be displayed after a period of time.

- Press "⊕" button to stop the automatic page change.
- Press "⊕" button again to allow the next page to be displayed.

To Select a Subcode Page

Subcode pages are subsections of long Teletext pages that can only be displayed on the screen one section at a time.

- Select the required Teletext page.
- Press "◴" button.
- Select the required subcode page number by pressing four digit buttons (e.g. 0001).
- If the selected subcode page is not displayed in a short time, press "⊠" button. TV programme will be displayed on the screen.
- Teletext page number will be displayed on the upper left corner of the screen when the selected page is found.
- Press "⊠" button to display the selected Teletext page.

To exit Teletext

- Press "▤" button. The screen will switch to TV mode.

Fastext and Toptext

Your TV supports the 7 page Teletext system. When the page number of any of the 7 pages in memory is entered, the system will not search for the requested page; instead it will display the page automatically.

- Press "**P**∧" button to move the Teletext screen forward one page at a time.
- Press "**P**∨" button to move the Teletext screen backward one page at a time.

For Fastext and Toptext

The subject-heading for the information may have a particular colour.

- Press an appropriate **RED**, **GREEN**, **YELLOW** or **BLUE** button in order to reach the relevant page quickly.

For TOPTEXT

If Toptext transmission is present, colour coded buttons will appear in status row.

If Toptext transmission is not present, status row will not appear.

In Toptext mode the "**P**∧" or "**P**∨" commands will request the next or previous page respectively. If Toptext transmission is not available, in case of operation of these commands, wrap-around occurs. For example page 100 appears to be one greater than page 199.

Toptext has a special page called HITLIST which can be displayed by pressing the "▤i" button. Use colour buttons on HITLIST page to select a line which will link you to another teletext page.

Peripheral Equipment Connections

There is a wide range of audio and video equipment that can be connected to your TV.

Connection diagrams at the end of this section show you where the different equipment should be connected at the back side of the TV.

Via the Euroconnector

Your TV set has 2 Euroconnector sockets. If you want to connect peripherals (e.g. video, decoder, etc.) which have Euroconnectors, to your TV, use **EXT.1 or EXT.2** input.

If an external device is connected via Euroconnector sockets, TV is switched to AV mode automatically. In this case if both sockets are connected, **SCART1** has the precedence.

T-V LINK compatible VCR

Be sure to connect the T-V LINK compatible VCR to the **EXT.2** terminal. If not, the T-V LINK function will not work properly.

- When connecting a T-V LINK compatible VCR to the EXT.2 terminal, be sure to connect the decoder to the VCR. If not, the **T-V LINK** function may not work properly. And then set the **Decoder(EXT2)** (**see page 9**) function for the channel to **ON** to unscramble a scrambled channel.

RGB mode

If an equipment can output the **RGB** signals, connect it to the **EXT.1** terminal.

EXT2S Mode

If the equipment connected to your TV set supports S-Video (Y/C) output from Euroconnector, you can have a better picture quality by selecting **EXT2S** mode and connecting your equipment to the **EXT.2 (EXT2S)** terminal of TV. See your equipment's booklet to check if your equipment has such feature.

Via the RCA jacks

If you have an equipment (such as a Camcorder) which has the RCA jacks, connect it to the **EXT-3** terminal with the video and audio cables.

Via the ANT (aerial) socket

If your equipment does not have an Euroconnector or RCA jacks, connect it to the TV with an aerial cable. For details, see the manual provided with the equipment.

- To store the test signal that comes from the equipment, see "**Installation Menu**" on **page 8** and store it to the program number 0. You can watch images from that equipment to select the program number which you stored the test signal.

Decoder

Cable TV offers you a wide choice of programmes. Some of them are free, others are to be paid for by the viewer. This means that you will need to subscribe to the broadcasting organisation whose programmes you wish to receive. This organisation will supply you a corresponding decoder unit to allow the programmes to be unscrambled.

For further information ask your dealer. See also the booklet supplied with your decoder.

Connect a decoder with an aerial socket to the TV

- Connect the aerial cable.

Connect a decoder without an aerial socket to the TV

- Connect the decoder to your TV with a eurocable (RCA Jack Cable) to **EXTERNAL** (RCA Jack). When your decoder has a Euroconnector / RCA Jack you can obtain better picture quality if you connect a eurocable (RCA Jack Cable) to **EXTERNAL** (RCA Jack).

TV and Video Recorder (VCR)

- Connect the Video Recorder to the ANT (antenna input) socket of the TV with the aerial cable.
- Connect the Video Recorder to the **EXT.1** or **EXT.2** terminal with the SCART cable.

NTSC Playback

Connect a NTSC video recorder to a terminal. Then press "**AV**" button to select the corresponding AV mode.

NTSC 3.58/4.43 system is detected automatically in AV mode.

Camera and Camcorder

To connect to the EXT-3 terminal

Connect your camera or camcorder to the right side of your TV.

- Connect your equipment to the TV via **VIDEO** (yellow), **AUDIO R** (red) and **AUDIO L** (white) inputs. You should connect the jacks to the input in the same colour.

Connect the decoder to the video recorder

Some video recorders have a special euroconnector for decoder.

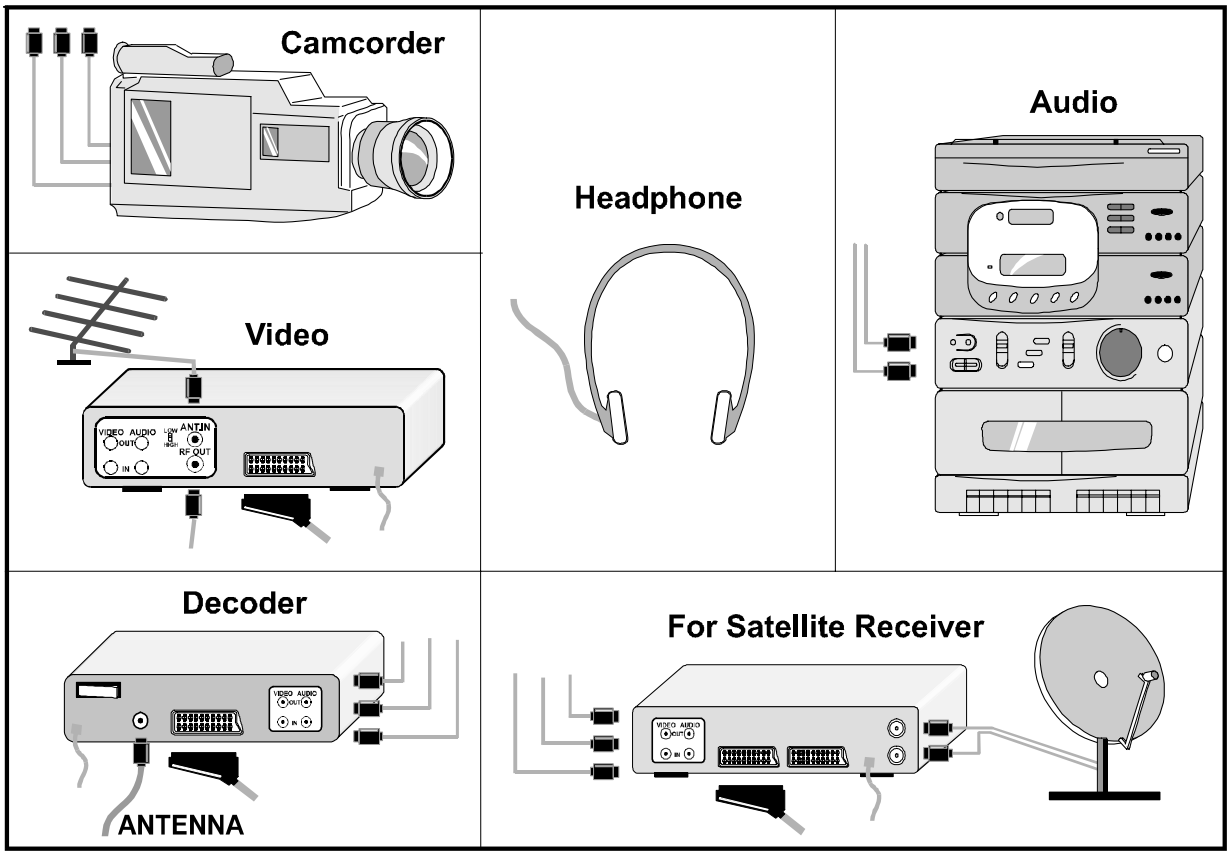
- Connect a eurocable to the euroconnector of your decoder and to the special euroconnector of your video recorder. See also the handbook of your video recorder.
- To connect your video recorder to the TV, see TV and Video Recorder section.

If you want to connect more equipment to your TV, consult your dealer.

Connecting Headphones

Use the stereo headphone socket on the right side of your TV, to connect headphones.

Peripheral Equipments



Tips

Can not turn the TV on?

Check that TV/VCR/DVD switch is set to TV position.

TV may go to stand-by mode when you turn the TV on soon after you turn the TV off. If you can turn the TV on again, it is not a problem.

Can not turn the TV off?

Check that TV/VCR/DVD switch is set to TV position.

Care of the Screen

Clean the screen with a slightly damp, soft cloth. Do not use abrasive solvents as they may damage the TV screen coating layer.

Colours of image on screen are abnormal

Have you selected the correct TV system? Is your TV set or house aerial located too close to the loudspeakers, non-earthed audio equipment or neon lights, etc. ?

Mountains or high buildings can cause double pictures or ghost images. Sometimes you can improve the picture quality by changing the direction of the aerial.

Is the picture or Teletext unrecognisable? Check if you have entered the correct frequency.

The picture quality may degrade when two peripherals are connected to the TV at the same time. In such a case, disconnect one of the peripherals.

No Image on Display Screen

Is the aerial connected properly? Are the plugs connected tightly to the aerial socket? Is the aerial cable damaged? Are suitable plugs used to connect the aerial? If you are in doubt, consult your dealer.

No Image means that your TV is not receiving any transmission. Have you pressed the correct buttons on the remote control? Try once more.

Sound

You can not hear any sound. Did you perhaps interrupt the sound, pressing "🔇" button? Are external speakers connected to the TV?

Sound is coming from only one of the speakers. Is the balance set to one direction extreme? See **Sound** menu.

Remote Control

If your TV no longer responds to the remote control, perhaps the batteries are exhausted. Replace the batteries.

Have you selected the wrong menu? Press "**MENU**" button to return to normal screen.

No solution

If the TV suddenly stops responding, disconnect the power cord of the TV from the AC outlet. Connect it to the AC outlet again to turn on the TV. If the TV returns to a normal state, it is not a failure. If this does not work, switch off, remove the mains plug and call the service personnel; never attempt to repair it yourself.

Specifications

Broadcasting System

PAL SECAM B/G D/K K' I/I' L/L'

Channels and Frequencies

Analogue: 46.25 MHz - 862.25 MHz (channel 01-17/21-73)

Cable TV: S1 - S41

Sound System

A2+Nicam Stereo

Power Requirements

220-240 V AC, 50 Hz

Power Consumption

105W (Standby < 3W)

Picture Tube Size

Viewable area 70 cm.(measured diagonally)

Audio Output

2x10 W RMS (10% THD)

EXT.1 Terminal

Euroconnector (21-pin, SCART)

* Video Input, Audio L/R Inputs and RGB Inputs are available.
* Analogue TV broadcast output (Video and Audio L/R) are available.

EXT.2 Terminal

Euroconnector (21-pin, SCART)

* Video Input, S-VIDEO (Y/C) Input, Audio L/R Inputs are available.
* Video and Audio L/R outputs are available.
* T-V LINK functions are available.

EXT.3 Terminal

RCA connectors x 3

* Video Input and Audio Inputs are available.

Headphone jack

Stereo mini-jack (3.5 mm in diameter)

Dimensions (WxHxD)

760 mm x 570 mm x 473 mm

Accessories

Remote control unit x 1 (RM-C1100)

AA/R6 dry cell battery x 2